Job# 10-5245 BASF -EIT 114 Oct. 9, 1996

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DAILY TIME LOC

DATE:	10-10-96		CUSTOMER:	BA.			
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DAILY TIME LOC

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P. O. Drawer O . Freeport, Texas 77541

INVOICE NO.

3609

DATE

Oct. 16, 1996

Job No.

5245

Location

Freeport, TX

TO:

BASF 607 Copper Road Freeport, TX 77541

PLEASE REMIT PAYMENTS TO: 11011 RICHMOND SUITE 500

HOUSTON, TX. 77042

Terms

: Net 30

FOR:

Service to the ETT 114 as follows:

On 10/10 set up equipment to Strip out all free product Blow cargo pipeline and stripping system Vacuum blow dry cargo tanks Pressure test cargo pipeline 40 PSI Close Barge. Deballast wing tanks 2,3,4 stem take and bow take. Reballast (Normal Ballast) stem rake & bow rake. Chemist check barge for safe entry & hot work Haul out of barge, Insert 3/8x 18" x18" plate weld two 6" fractures - (bow rake), starboard corner rap, haul down and shift barge to #3 dock. Remove equipment.

LABOR:	Leadman Leadman Journeyman Journeyman	5 hr. 5 hr. 23 hr. 23 hr.	606000	35.00 (ST) 49.50 (OT) 32.50 (ST) 45.75 (OT)	175.00 247.50 747.50 1052.25
WATER:	50,000 gal	33 14.	@ @	5.00/1,000 gal	250.00
MATERIAL:	40.00	Plus 25%	=	16.00	50.00
CHEMIST:	300.00	Plus 25%	=	75.90	375.00
EQUIPMENT:	Compressor	10 hr.	@	48.00	480.00
	Air Movers	30 hr.	@	5.00	150.00
	Vacuum	4 hr.	@	30.90 🗻	120.00
	Hand Hose	10 hr.	@	12.00	120.00
•	3" Gas Pump	32 hr.	@	18.00	576.09
	2" Strip Pump	12 hr.	@ ·	15.00	180.00
	Haul Out	1 hr.	6000000	1,100.00	1,100.09
					

TOTAL AMOUNT DUE

PHONE: (409) 233-6371

\$5623.25

Job Workscope/Preakdown

Jole No. 10-	5245 Date: 10 "	9-96	Invoice Nm	nter: <u>3609</u>
Customer <u>b</u>	ASE.		JAVV: <u>£7</u>	7114:50
Foreman:	W	(¢)	3K 00	
	o/i*	ú¢.	53.25	
Leadman:	:vr5	64	33.00	175,00
	wr <u>5</u>	الزنج	49.50	247.50
laurneyman:	svr 23	Là	32.50	747.50
A	ur 23	(c)	45.25	1,052.25
Disposal:	Shop Oil	(ce	0.60	
	Water 50	60	0.33	
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hembt -	360	* Plus 25%_	7 <u>5</u>	375-,00
quipment:	Compressor	tio .	at.00:	480-00
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	Vacuum <u> </u>	Ç.	10.00	120-07
	Hand flose	(# <u> </u>	2.00	120-00
•	Weld Machine	Q I	5.00	
	Chany Helar	1	U.GG	
100	Crane	Ç,	8,00	(7/ 0)
• • • •	3"Car Pump 32	••	14.00	576.00
	2" Ship Proop 12	••	5.00	180-00
	Hunerworth	**-	0.00 5.00	
	d" like. Pump	-	5.00 K.00	· · · · · · · · · · · · · · · · · · ·
V.	Curing Rig	***		1.100
•	Hand Out		0.00 S.00	
نيم نيم	Truck	••	5.00 a.aa	
-	Hand Tools	frè i	0.08	HER 012

Tatal Invoice:

\$ 5,623.26

Strength through environmental awareness and customer service

P.O. Drawer O Freeport, Texas 77541 Office (409) 233-6371 Fax. (409) 233-6375 , G*

Date: 10-10-96 Job No: 5245 Barge/MV: Etta 114

EQUIPMENT	HOURS
Compressor	10
Air Movers	24
Vacuum	4
Steam Rig	
Fland Flose	2
Boller	
2" Strip Pump	12
3" Diesel Pump	32
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Flaul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	3
Gloves	2
Plashlights	
Gaskets 4	
Goggles	3
Boots	
Raincoats	
White Rags	

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HER 01266

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HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date	10-10-96	·	Supervisor 📆	Wander-	Desarte
Plant	HOXENLOS m.	HYING -	Client Safety		
Area	ABS Frue DOC	K			
The f	ollowing listed materials area:	are considered	to be hazardou	is to the emplo	yees working in
CY	CLO HENAME				
		.			
					
			<u>.</u>		
mater the pr be fol	employees assigned to vials in this area, the hazar otective equipment that he lowed in case of an accide of designate by signing this	ds they present as been provi	t to the workers ded and where	s, the location of it is located, as	of hazards listed, nd procedures to
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Material Safety Data Sheet

CYCLOHEXANE (98%, 99.5%, 99.8%, Research Grade, Spectro Grade)

PHILLIPS 66 COMPANY A Subsidiary of Phillips Patroleum Company Bartlesville, Okiahoma 74004 PHONE NUMBERS

Emergency: Husiness Hours After Hours

(918) 661-3865 (910) 661-0110

Ceneral MSDS Information:

(910) 661-8327

A. Product Identification

Synonymx: Borgor Refinery Stream No. 657; Sweeny Refinery Unit 19 Cyclohexano Product; Puerto Rico Coro Stream No. 3216; Unit 3.2 Stabilizer Column Bottoms

Chemical Name: Cyclohuxano
Chemical Family: Cycloparafrinic Hydrocarbon
Chemical Formula: CoH12
CAS Reg. No.: 110-82-7
Product No.: N249,N24560,N24842

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it is subject to all applicable provisions and restrictions of 40 CFR, section 721 and 723.250.

B. Hazardous Components

CAS X OSHA ACGIN
Ingredients Number By Wt. PEL TLV
Cyclo exame 110-82-7 × 300 ppm 300 ppm

* See Section N for additional product composition information.

HER 01269

C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposure

Respiratory Protection: For concentrations exceeding the recommended exposure level, use Micsilvisibl approved air purifying respirator. In case of spill or leak resulting in unknown concentration, where HIOSH/MSHA approved supplied air respirator. conditions immediately dangerous to life or health (IDLN) extrt, use MIOSMANSHA approved solf-contained breathing apparatus (SCHA).

Eye Protection: Use safety glasses with side shields.

Skin Protection: Wear polyvinyl alcohol or Buna-N gloves. Use full-body, long sleeved garments to prevent

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or Conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Avoid inhalation and skin and eye contact. Wear protective equipment und/or garmonts described in Section C if expenses equipment and or garmones described in section c ir exposure conditions warrant. Mach thoroughly after handling. Provide means of controlling leaks and spills. Immediately remove and launder contaminated clothing before reuse.

Store in a cool, well-ventilated area away from ignition sources. Provide means of controlling leaks and spills. Hond and ground during liquid transfer. Koop containers closed.

E. Reactivity Data

Stability, Stable Conditions to Avoid: Not Applicable

Incompatibility (Materials to Avoid), Oxygen and strong exidizing materials

Hazardous Polymorization: Will Not Occur Hazardous Decomposition Products: Carbon exides and various hydrocarbons

F. Health Hazard Data .

Recommended Exposure Limits:

See Section B.

HER 01270

Acute Effects of Overexposure:

Lye: Contact with the liquid or high vapor concentrations may cause wild eye irritation including redness, swelling of mucous membranes and toaring.

Skin: Nominal skin absorption. May defat skin upon repeated or prolonged contact resulting in redness, swelling, pain or thickening. Prolonged exposure to high vapor concentrations may cause a mild mucous membrane irritation.

Inhalation: Righ vapor concentrations may cause dizziness, excitement,
'/peractivity, rapid breathing, difficulty breathing, fating,
conducte, incoordination, tremors, nauses and respiratory
irritation. Extreme exposures may cause anesthesia, unconsciousness and death.

Ingestion: May cause increased respiration rate, fatigue, diarrhea. ... nausea and central nervous system depression. Extreme exposure may cause circulatory collapse and death. May be aspirated into lungs of swallowed, resulting in pulmonary edgma and chemical pneumonitus.

Subchronic and Chronic Effects of Overexposure:

No known applicable information.

Other Health Effects:

Inhalation

No known applicable information.

Health Hazard Categories:

Animal	Human	Animal Human
Known Carcinogen Suspect Carcinogen Hutagen Teratogen Allergic Sensitizer Highly Toxic	Toxic Corresive Irritant Target Organ Toxin Specify " Lung =	Aspiration Huzard
First Aid and Emergency Eye: Flush eyes to Skin: Flush skin to	•	ر عاد المادي المادي المادي المادي

Ingestion (4) Bo not induce veniting. Seek immediate medical assistance.

oxygen and sock medical attention.

Remove from exposure. If breathing is difficult, give

Note to Physician: Castric lavage using a cuffed endetracheal tube may be performed at your discretion.

HER 01271

Cyclobexane (98%, 99.5%, 99.8%, Research...) (027960) (PTS-145)

J. DOT Transportation

Shipping Namo: Cyclohexane

Hazard Class: Flammable Liquid

1D Number: UN 1145

Harking: Cyclohexane/UN 1145

Labol: Flammable Liquid

Placard: Flammable/1145

Haz: dous Substance/RQ: Not Applicable

Shipping Description: Cyclohexane, Flammable Liquid, UN 1145

Packaging Reforences: 49 CFR 173.118 and 173.119(a)

K. RCRA Classification - Unadulterated Product as a Waste

U056-Cyclohexane; Ignitable

Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Use HICSMANNA approved respiratory protection, such as air-supplied mask, in confiner to the continue of the confiner of the continue of the

M. Huzard Classification

		he following hazard definition(: ety and Health Hazard Communicat ()):	
<u></u>	Combustible Liquid Compressed Gas Flammable Gas Flammable Liquid Flammable Solid	Flammable Aerosol Explosive X Health Mazard (Section F) Organic Peroxide	OxidizerUvrophoricUnstableWater Reactive
	Based on information	presently available, this productions of 20 CPN Section 100	ict does not meet

G. Physical Data

Appearance: Colorless Liquid Odor : Pungent Udor: Pungent

Boiling Point: Approx. 177F (81C)

Vapor Pressure: 3.2 paid (165 mm Hg) at 100F

Vapor Density (Air = 1): 2.8

Solubility in Water: Regligible

Specific Gravity (1(20 = 1): 0.77 at 60/60F

Percent Volume: 100

Evaporation Rate (butyl Acotate = 1): >1

Viscosity: Not Percent Viscosity: Not Established

H. Fire and Explosion Data

Special Fire Fighting Procedures: Evacuate and

conditions warrance. Have you spray may be used to cool expended containers and equipment. Do not spray water directly on fire ~ product will float and could be reignited on surface of water.

Fire and Explosion Hazards:

Carbon exides and various hydrocarbons formed when burned. Highly flammable vapors which are heavior than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is pessible.

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Evacuate area of all unnacessary personnel. In case of spill or
leak resulting in unknown concentration, use NIOSM/MSMA approved
supplied air respirator. In case of spill or leak which results
in conditions immediately dangerous to life or health (IDLM) use
MIOSM/MSMA approved self-contained breathing apparatus (CCMA) equipment. When entry into or exit from concentrations of unknown exposure, use HIOSH/MSHA approved self-contained breathing apparatus (SCBA). Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in

N. Additional Comments

Additional Product Composition Information:

98.82	Ingredient Cyclohexane Hethylcyclopentane Methylhoxanes Dimethylpentano	% By Wt. 90.7 0.4 0.3 0.2
99.5x	Cyclohexano Rolated Hydrocarbons	99.6 0.2
99.8%	Cyclohexane Related Hedroctrhoan	99.9

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section 8):

Cyclohexane

HER 01274

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Barge Cleaning Report

JOB NO <u>5245</u>	ETA		<u></u>
BARGENO Ett=114	DATE/TIM	ME ARRIVAL 🟒	0-10, 86 - 6 50 AM
CUSTOMER BASE	ДАТЕЛТИ	ME ȘTART 📆	0-16-81 = 7:00 AM
PRODUCT CHELDHOLD	ve : Date/tim	ME COMPLETE ∠	10-10-962
AMOUN	rstripped 300		
CLEANING INST. BY Robert Peter COM	PLETION SCH. BY	OVERTIME	EAUTH BY
BARGE INSP. BY DO HE FE DATE/TIM			
DEEPWELL OPENED: YES	•		* ·
BELOW DECK CARGO PIPELINE:			
BLIND OPENED: YES	NO CLOSED BY	River NEW	/ GASKET: YES NO_ _
DECK CHECK VALVE OPENED: YES	M/ANO CLOSED BY	NEW	GASKET: YES NO
DECK HEADER BLINDS OPENED: YES	NO INSECTED I	BY CALEB BRETT_	
DECK HEADER DRAIN PLUG OPENED: YES	NO CLOSED BY	Dain to	·
VAPOR RECOVERY HEADER OPENED: YES	NO CLOSED BY	<u>Ruinta</u> NEW	GASKET: YESNO
RUST SCALE: YES	NO WASHED O	UT B	UCKETED OUT
NUMBER OF CARGO TANKS 3	CONDITION	OF CARGO VALVI	ES G. D
SLOP TANK STRIPPED: YES	NO DRIP PANS	STRIPPED:	YESNO
WEATHER: TEMP So RAIN_	FOG HUMIDITY	OVERCAST	CLOUDY CLEAR
PIPELINE WASHED: YESNOPIPEL	INE BLOWN: YESNO_	INSPECTED BY	CALEB BRETT
BOW RAKE CHECKED: YES	NO STERN RAK	E CHECKED:	YESNO
VOIDS: YES NO SAF	ETY EQUIPMENT USED:	·	
SUMPS INSPECTED:			
•	NOTICE		
All barges cleaned for BASF will be inspected by to sign. The foreman will put two copies in the de that is picking up the barge will not be called un BASF logistics representative must be contacted.	Caleb Brett. The inspector we current mail box. One copy was	will stay in the mailbo	x, and the captain of the tugboat
Date Inspected 10/10/96	າ ime in: <u>15</u> 30		Time out: 1535
Inspected By: Lithun Deufsey Calcb Brett			and the second
NO BASE BARGE THAT HAS BEEN CLEANE PAPERS. CALEB BREIT WILL BE GIVEN A		IL CALEB BRETT H	AS SIGNED THE RELEASE



Inchcape Testing Services Caleb Brett

TI	М	E	L	O	G
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ľ	OUR REFERENCE
k	UR REFERENCE
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VESSEL	PRODUCT/CARGO	PORT/TERMINAL	OATE.
1"	1 4 7 7 15	1100	10-10-96
1 <i>5</i> 77-119		i nercules	10-10-16

MONTH	DAY	HOUR	EVENT
10	10	1500	inspector notified
		1530	inspector arrived
		1330	commenced bage pre-inspection
_		1535	remy witnessed cago lines blown
		रऽ५०	completed hage pre-inspection
		1545	fire 1 paper work completed
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•	Inchcape Testing S	Service
•	Caleb Brett	Vicil

YOUR REFERENCE	
OUR REFERENCE	

VISUAL TANK INSPECTION REPORT

ETT-114	PRODUCT/ CARGO N/N	Hercules	10-10-96
Tank Number	1,2,3 6		
Tank Coating	N/A		
Last Cargo	cyclo		
Second Last Cargo			
Third Last Cargo			
Time/Date Inspected	1540/10-10-86		
Visual Cleanliness Accepted/Rejected*	accepted		
Reason for Rejection	<u> </u>		

-	TK#	Strip + blow / Stripped Product from careo tanks + Pipeling.
Method said to	TK#	air blow dry for 30 min, per tenk, vent agree tenk 4 hours
have been used	TK#	
to clean tanks:	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-058-944

FOR CALEB BRETT

HER 01277



Strength through environmental awareness and customer service-

P.O. Drawer O Freeport, Texas 77541

Office (409) 233-6371 Fax. (409) 233-6375

Final Check List

DATE: <u>10-10-86</u>		
BARGE: Ett=114		
		REPLACED GASKET
BLND NUMBER CHECKED	_2_	YES NO
GATE VALVE NUMBER CHECKED	_6	YES NO
PLUGS NUMBER CHECKED		YES NO
CHECK VALVE NUMBER CHECKED	MA	YES NO
DEEPWELL BLIND NUMBER CHECKED	N/4	YES <u> </u>
BELOW DECK CARGO PIPELINE BLIND NUMBER	_1/4	YES NO
BELOW DECK CARGO PIPELINE BLIND REMOVED		yes <u>_</u> no
DRIP PAN VALVES: Closed By: RIVERA DRIP	PANS COVER:	Closed by: <u>Avinted</u>
CONTAINMENT AREA PLUG OR VALVES:		Closed by. Quinter
AIR TEST CARGO LINE - 40 psi - USING SOAP		
SIGNATURE OF TESTER: Charlies SIGNATURE OF WITNESS: Lun Quin	Questa tens	·

- CHECK VALVE GASKET WILL BE REPLACED
- AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

ERIC L. MOORE MARINE CHEMIST OFFICE (713) 520-5479 P. O. BOX V - FREEPORT, TX 77542 FAX (409) 299-6655 MARINE CHEMIST CERTIFICATE

SERIAL NO. G 78761

LARRY	HERCULES Vessel Owner or Agent	10 ext 96
invey Requested by ETT-[14	TANK BANGE	HERCLES Specific Location of Ve
SSOI CYCLOHEX AN E at Three (3) Cargoos	Type of Vessel [F]-OPID - UISUAL Tests Performed	Specific Location of Ve
CARGO TANKS No 1		
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bau RAKE		1
STERU BOX		
Atmosp	HERIC TEST 20,820	
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	ospheric changes adversely affecting the STANDARD SAFETY	
QUALIFICATIONS: Movement of vesse	ubt, immediately stop all work and contact the undersigned Ma Is from original location, transfer of ballast, or manipulation o	I valves or closure equipment tending to
Inspection and endorsement or relasue	compartments subject to gas accumulation, unless specifics s of Certificate for the spaces so affected. All lines, vents, hea ot safe' unless otherwise specifically designated.	
	ist, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsections or space so designated: (a) the oxygen content of the atmosphere is at leas	·
as directed on the Marine Chemist's Certificate.	rations; and that, (c) the residues are not capable of producing toxic materials und	
ENTER WITH RESTRICTIONS: Means that in an	compartment or space so designated, the requirements of Sale for Workers ha y compartment or space so designated, entry for work may be made only if con	•
	artment so designated: (a) oxygen content of the atmosphere is at least 19.5 per and that, (b) the concentration of flammable materials in the atmosphere is belo	
(c) the residues are not capable of producing a hig directed on the Marine Chemist's Certificate; ar	ther concentration than permitted by (b) above under existing atmospheric conduction of further, that, (d) all adjacent spaces containing or having contained flamm stactority inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire.	itions in the presence of fire, and while maintained as lable or combustible materials have been cleaned
NOT SAFE FOR HOT WORK: Means that in the SAFE FOR REPAIR YARD ENTRY: Means that I sampling stations, and results indicate the atmos	compartment so designated, the requirements of Safe for Hot Work have not the compartments and spaces of the flammable cryogenic liquid carrier so designere tested to be above 19.5 percent oxygen, and less than 10 percent of the	gnated: (a) have been tested by sampling at remote a lower flammable limit, or (b) are increal.
Vessels and have found the condition of each to	that I have personally determined that all spaces in the foregoing list are in accide in accordance with its assigned designation.	•
he undersigned acknowledges receipt of this Certificate un derstands conditions and limitations under which it was issue		ing at the time the inspection herein set forth was completed ations and instructions.
	\mathcal{V}_{I}	141/1.
Name Company	Signed Marrie Communication Signed Si	0/11/10/20 124

VESSEL POSTING HER 01279 ERIC L. MOORE MARINE CHEMIST OFFICE (713) 528-5479 MARINE CHEMIST CERTIFICATE P. O. BOX V - FREEPORT, TX 77542 FAX (409) 299-6655 SERIAL NO. G 78761 10 0ct 96 LARRY LERCULES HERCULES TANK BUNGE ETT 114 -PID - USUAL <u>ای د. 17</u> cyclohekane Last Three (3) Cargo Time Survey Completed CARGO TANKS No 12 3 WING TANKS NO 1, 2, 3 &4-PORT SAFE TIGR WORKERS & SMR3OARD SAFE TOR HOTWORK BOW RAKE STERN BOX 20,8 %. TEST AMOSPHERIC 17% LEL O PPM PROJUDE UENTIATION OURING ATLENTRY BY WORKERS In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or it in any doubt, immediately stop all work and contact the undersigned Marine Chemist QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenences shall be considered "not safe" unless otherwise specifically designated. STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2) SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions white maintained as directed on the Marine Chemist's Certificate. NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met. ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit, and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements. NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Sale for Hot Work have not been met. SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are incred CHEMIST'S ENDORSEMENT. This is to cartify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation. 'The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and inderstands conditions and limitations under which it was issued." This Certificate is based on conditional existing the subject to compliance with all dualities.

000 NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

(Parkey

ERIC L. MOORE MARGIE CHEMIST OFFICE (713) 520-5479 P. O. BOX V - FREEPORT, TX 77542 PAX (469) 298-3655 MARINE CHEMIST CERTIFICATE SERIAL NO. G78761

LARAY	HCRCULES	10 0x796
Survey Requested by ETT /14	Vessel Owner or Agent THAK BUYGE	HERCULES
Vessel CYCLOHEKEWE Last Three (3) Cargoes	LE L-0, -PID - UISUFIL Tests Performed	Specific Location of Vessel 7. 00 Time Survey Completed
CARGO TANKS No	1253	
		ar workers
€ 51	MRBOARD SAFE T	on Hotwork
BOW RAKE	······	
STERN BOX		
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949 949 Printer		
In the event of any physical or att	mospheric changes adversely affecting the STANDARD SA doubt, immediately stop all work and contact the undersig	AFETY DESIGNATIONS assigned to any med Maune Chemist
QUALIFICATIONS: Movement of vest alter conditions in pipe lines, tanks inspection and endorsement or reiss	sols from original location, transfer of ballast, or manipul or compartments subject to gas accumulation, unless sp sue of Certificate for the spaces so affected. All lines, ven "not safe" unless otherwise specifically designated.	ation of valves or closure equipment tending to ecifically approved in this Certificate, requires
SAFE FOR WORKERS: Means that in the comp in the atmosphere are within permissible conce as directed on the Marine Chemist's Certifical		is at least 19.5 percent by volume; and that, (b) toxic materials enals under existing atmospheric conditions while maintained
·	ne compartment or space so designated, the requirements of Sale for Wi any compartment or space so designated, entry for work may be made o	
SAFE FOR HOT WORK: Means that in the comor where external hot work is to be performed (c) the residues are not capable of producing a directed on the Marine Chemist's Certificate;	nparlment so designated: (a) oxygen content of the atmosphere is at least d; and that, (b) the concentration of flammable materials in the atmosphet higher concentration than permitted by (b) above under existing atmospher, and further, that, (d) all adjacent spaces containing or having contains attistactorily inened, or, in the case of fuel tanks or fube oil tanks, or engine reactions.	re is below 10 percent of the lower flammable limit; and that; and conditions in the presence of the, and white maintained as ad flammable or combustible materials have been cleaned.
SAFE FOR REPAIR YARD ENTRY: Means tha	the compartment so designated, the requirements of Safe for Hot Work to at the compartments and spaces of the Nammable cryogenic liquid carrie	ir so designated: (a) have been tested by sampling at remote
CHEMIST'S ENDORSEMENT. This is to certi	nosphere tested to be above 19.5 percent oxygen, and less than 10 perc ify that thave personally determined that all spaces in the loregoing list a to be in accordance with its assigned designation.	
	supplier Section 2.6 of MSDA 206 and This Conditions is based on condi-	Δ

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSEL

ERIC L. MOORE MARKE CHEMIST OFFICE (713) 520-5479 P. O. BOX V - FREEPORT, TX 77542 FAX (469) 298-8655 MARINE CHEMIST CERTIFICATE SERIAL NO. G 78761

LARRY	HORCULES	1000196
Survey Requested by ETT 114	Vessel Owner or Agent THINK BUVICE	HCRCULES
CYCLOHEKANE	LEL-U, -PIU - UISUA	
Lest Three (3) Cargoes	Tests Performed	Time Survey Completed
CARGO TANKS No 1	/	
WING TANKS No 1,2		TOR WORKERS
	RISOARD SHIFE	FOR HOTWORK
BOURAKE		······································
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In the event of any physical or almost of the above spaces, or if in any double	pheric changes adversely affecting the STANDARD t, immediately stop all work and contact the under	SAFETY DESIGNATIONS assigned to any signed Marine Chemist.
alter conditions in pipe lines, tanks or co	ompartments subject to gas accumulation, unless	pulation of valves or closure equipment tending to specifically approved in this Certificate, requires
appurtenances shall be considered "not	it Certificate for the spaces so affected. All lines, v sale" unless otherwise specifically designated. paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5.	vents, heating coils, valves, and similarly enclosed, and Subsection 6-3.2)
SAFE FOR WORKERS: Means that in the compartme in the atmosphere are within permissible concentrations.	ent or space so designated: (a) the oxygen content of the atmosph	here is at least 19.5 percent by volume; and that, (b) toxic materials materials under existing atmospheric conditions while maintained
	npartment or space so designated, the requirements of Sale for	r Workers have not been met. Se only if conditions of proper protective equipment, ctothing, and
time are as specified. SAFE FOR HOT WORK: Means that in the comparts	ment so designated: (a) oxygen content of the almosphere is at le	, past 19.5 percent by volume, with the exception of inerted spaces
[c] the residues are not capable of producing a higher directed on the Marine Chemist's Certificate; and I	r concentration than permitted by (b) above under existing atmos further, that, (d) all adjacent spaces containing or having cont	phere is below 10 percent of the lower flammable limit; and that, spheric conditions in the presence of fire, and while maintained as tained flammable or combustible materials have been cleaned in eroom or fire room bilges, have been treated in accordance with
NOT SAFE FOR HOT WORK: Means that in the co	impartment so designated, the requirements of Safe for Hot Wo compartments and spaces of the flammable cryogenic liquid ca	ork have not been met. arrier so designated: (a) have been tested by sampling at remote
sampling stations, and results indicate the atmosph	ere tested to be above 19.5 percent oxygen, and less than 10 pit in have personally determined that all spaces in the foregoing li	

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and stands conditions and limitations under which it was issued."

20M-2-88

ERIC L MOORE MARINE CHEMIST OFFICE (713) 520-5479 P. O. BOX V - FREEPORT, TX 77542 FAX (469) 296-8655 MARINE CHEMIST CERTIFICATE SERIAL NO. G78761

10 x 196 or Agent WAGE HERCULES Specific Location of Ver - PID - USUAL Time Survey Comple SHAFE TOR HOTWOCK 20,8% OPPM
Specific Location of Ver- PID - USUAL 17.00 ITIME Survey Complet SPAFE FOR HISTORIAN 20,8% 20,8% 0% LEL
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ing the STANDARD SAFETY DESIGNATIONS assigned to any contact the undersigned Marine Chemist.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESS

20M-2-88

HER 01283

Printed in U.S.A.

HERCULES OFFSHORE CO.

INVOICE NO.

ORDER No. 10-5845	CUSTOMER P.O.	
ONDER WRITTEN A TOMPLETION DATE E DEPARTURE DATE M/V DARGE MIDTH POREMAN CAST PRODUCT GAS FREEING NO CERTIFICATE REQUIRED NO MO MOULD HAUL OUT FOR INSPECTION AND REPAIR YES NO MOULD NO	C NAME OF THE STOCK MATERIAL TRANSFER TICKET OUTSIDE SERVICES YES NO	
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ON WAYS DATE:	NUMBERS	
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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.		
Signed:	Date:	

HERCULES OFFSHORE CO.

ORDER No. 10-5045	CUSTOMER P.O	
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GAS FREEING NO CERTIFICATE REQUIRED NO		
HAUL OUT FOR INSPECTION AND REPAIR YES NO		
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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.		
Signed:	Date:	
Signed:		

HER 01285